IN THE CLAIMS

Currently pending claims 12-21, 35-37 and 82-105 are reproduced below. Kindly cancel claims 22-34 and 38-81 and add claims 82-105 as set forth below. No claims have been amended.

1-11. (Cancelled)

12. (Previously Presented) A contraceptive or sterilization device for occluding a reproductive body lumen to prevent the passage of reproductive cells therethrough, comprising: a) a tubular member having a first end, a second end, and a lumen extending therein, which is at least in part expandable within the reproductive body lumen from a first configuration to a second larger configuration; and b) a mesh member connected to the tubular member, which is permeable to allow for tissue ingrowth to thereby occlude the reproductive body lumen.

13. (Previously Presented) A contraceptive device installed within a lumen of the patient's reproductive system, comprising a) a tubular member having a first end, a second end, and a lumen extending therein, and having at least a portion thereof which is secured to a body wall portion defining at least in part the lumen of the patient's reproductive system; and b) an occluding member connected to the tubular member comprising an epithelialized mesh which occludes the lumen of the patient's reproductive system sufficiently to prevent the passage of reproductive cells therethrough.

14. (Previously Presented) A contraceptive system, comprising a) a catheter having a proximal end, a distal end, and a lumen extending at least in part therein; and b) a contraceptive device releasably connected to the catheter, having a tubular member having a first end, a second end, and a lumen extending therein, which is at least in part expandable within the reproductive body lumen from a first configuration to a second larger configuration, and having a mesh member connected to the tubular member, which is permeable to allow for tissue ingrowth to thereby occlude the reproductive body lumen.

15. (Previously Presented) A method of contraception comprising the steps of a) inserting within a desired body lumen a contraceptive device comprising a tubular member and a mesh member connected thereto; b) expanding the tubular member within the body lumen; c) securing the expanded tubular member to a wall portion defining at least in part the body lumen; and d) epithelializing the mesh member to occlude the body lumen.

16. (Previously Presented) The method of claim 15 wherein the step of expanding the tubular member comprises the step of releasing a radially compressive force on the tubular member.

17. (Previously Presented) The method of claim 16 wherein the contraceptive device is disposed within a lumen of a delivery catheter, and the step of releasing the radially compressive force comprises longitudinally displacing the tubular member out a distal end of the delivery catheter.

18. (Previously Presented) The method of claim 15 wherein the expanded tubular member is disposed within the body lumen for sufficient time for it to be epithelialized within the body lumen and thereby secured to the wall portion.

19. (Previously Presented) A contraceptive or sterilization device for occluding a fallopian tube to inhibit conception, comprising: a) a tubular structure having a first end, a second end, and a lumen extending therein, the tubular structure expandable within the fallopian tube from a first configuration to a second larger configuration; and b) a tissue ingrowth element connected to the tubular structure, the tissue ingrowth element inciting tissue ingrowth to thereby occlude the fallopian tube.

20. (Previously Presented) A contraceptive device installed within a patient's fallopian tube, comprising: a) a tubular structure having a first end, a second end, and a lumen extending therein, and having at least a portion thereof which is secured to a tubal wall portion of the patient's fallopian tube; and b) a tissue ingrowth element connected to the tubular structure comprising a material with tissue ingrowth therein which occludes the patient's fallopian tube sufficiently to disrupt conception.

21. (Previously Presented) A contraceptive system, comprising: a) a catheter having a proximal end, a distal end, and a lumen extending therein; and b) a contraceptive device releasably connected to the catheter, having a tubular structure having a first end, a second end, and a lumen extending therein, which is expandable within the reproductive body lumen from a first configuration to a second larger configuration, and having a tissue ingrowth element connected to the tubular structure, which is porous to allow for tissue ingrowth to thereby occlude the reproductive body lumen.

Cancel claims 22-34.

35. (Previously Presented) A sterilization device occluding a reproductive body lumen to prevent the passage of reproductive cells therethrough, comprising: a) a tubular member having a first end, a second end, and a lumen extending therein, the tubular member at least in part expandable within the reproductive body lumen from a first configuration to a second larger configuration; and b) a mesh member connected to the tubular member, the mesh member permeable and receiving tissue ingrowth therein so as to occlude the reproductive body lumen.

36. (Previously Presented) A contraceptive device installed within a lumen of the patient's reproductive system, comprising a) a tubular member having a first end, a second end, and a lumen extending therein, and having at least a portion thereof which is secured to a body wall portion defining at least in part the lumen of the patient's reproductive system; and b) an occluding member connected to the tubular member comprising a mesh receiving tissue ingrowth therein, the ingrown mesh occluding the lumen of the patient's reproductive system sufficiently to prevent the passage of reproductive cells therethrough.

37. (Previously Presented) A contraceptive or sterilization device for occluding a fallopian tube to inhibit conception, the fallopian tube capable of producing ingrowth tissues, the device comprising: a) a tubular structure having a first end, a second end, and a lumen extending therein, the tubular structure expandable within the fallopian tube from a first configuration to a second larger configuration; and b) a tissue ingrowth

element connected to the tubular structure, the tissue ingrowth element receiving tissue ingrowth to thereby occlude the fallopian tube.

Cancel claims 38-81

82. (New) The method of claim 15 wherein the step of securing the tubular member to the wall portion comprises growing tissue into and around the tubular member within a fallopian tube.

83. (New) The method of claim 82 wherein the contraceptive device further includes one or more connecting members on a surface of the tubular member, and wherein the step of securing the tubular member to the wall portion further comprises embedding the connecting members in the wall portion.

84. (New) The device of claim 19 wherein the tissue ingrowth element comprises woven strands of a biocompatible material connected to the tubular structure.

85. (New) The device of claim 19 wherein the tissue ingrowth element comprises braided strands of a biocompatible material connected to the tubular structure.

86. (New) The device of claim 19 wherein the tissue ingrowth element is formed from Dacron.

87. (New) The device of claim 19 further including a tissue ingrowth layer longitudinally disposed along at least a section of at least one of an inner and an outer surface of the tubular structure.

88. (New) The device of claim 87 wherein the tissue ingrowth layer is longitudinally disposed along substantially the entire length of at least one of the inner and the outer surface of the tubular structure.

89. (New) The device of claim 19 wherein the tissue ingrowth element is disposed within the lumen of the tubular structure along substantially the entire length of the tubular structure.

90. (New) The device of claim 19 wherein the tissue ingrowth element is disposed within the lumen of the tubular structure in a plurality of sections intermittently spaced along the length of the tubular structure.

91. (New) The device of claim 19 wherein the tissue ingrowth element is disposed within the lumen of the tubular structure at the first end of the tubular member.

92. (New) The device of claim 91 including a tissue ingrowth layer longitudinally disposed along at least a section of at least one of an inner and outer surface of the tubular structure.

93. (New) The device of claim 19 wherein the tubular structure comprises Nitinol.

94. (New) The device of claim 19 wherein the tubular structure further includes anchoring members configured to secure the expanded tubular structure to a wall defining the fallopian tube.

95. (New) The device of claim 19 wherein the tubular structure expands from the first configuration to the second larger configuration by the release of a radially compressive force.

96. (New) The device of claim 91 wherein the tubular structure's second larger configuration comprises an expanded diameter increasing along at least a section thereof from the first end of the tubular structure to the second end of the tubular structure.

97. (New) The device of claim 19 wherein the tubular structure comprises a lattice-like framework.

98. (New) The device of claim 97 wherein the lattice-like framework comprises a thin walled metallic tube having a pattern of cuts configured to allow the tubular structure to be expanded to the second larger configuration.

99. (New) The device of claim 97 wherein the lattice-like framework comprises a braid of wire.

100. (New) The device of claim 97 wherein the lattice-like framework comprises a helical coil of wire.

101. (New) The device of claim 19 wherein the surface of the tubular structure is configured to promote tissue growth.

102. (New) The device of claim 19 coated at least in part with a compound to promote tissue cell growth.

103. (New) The device of claim 19 further comprising copper or a copper alloy.

104. (New) The device of claim 19 wherein the tubular structure has an open-walled structure to facilitate the ingrowth of tissue cells thereby securing at least a section of the expanded tubular structure to a wall portion of the fallopian tube.

105. (New) The installed contraceptive device of claim 20 wherein tissue has grown into and around at least a length of the tubular structure.